

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) In a client system, a method for enhancing navigation of a video, comprising:
 - receiving the video as it is streamed from a server over a computer network;
 - receiving a first user request to display a first navigation video strip on a display device, wherein the first navigation video strip comprises a first plurality of video frames from the video;
 - in response to the first user request, obtaining first instructions for displaying the first navigation video strip;
 - obtaining the first plurality of video frames by requesting the specific video frames from the server by sending separate play requests for the video frames in accordance with a video streaming protocol, wherein a normal play time of each play request begins at T_i and ends at $T_i + d$, wherein T_i is a timestamp of an i^{th} video frame, and wherein d does not exceed one frame duration; ~~and~~
 - displaying the first navigation video strip on the display device in accordance with the first instructions, wherein displaying the first navigation video strip comprises retrieving the first plurality of video frames from the server and displaying corresponding thumbnail images; and
 - receiving a user selection of an option concerning how the video is managed while the first navigation video strip is displayed, wherein the option is selected from the group consisting of cropping the video and alpha-blending the video with the first navigation video strip.
2. (Original) The method of claim 1, wherein obtaining the first instructions comprises generating the first instructions.

3. (Original) The method of claim 1, wherein obtaining the first instructions comprises transmitting a first client request to the server to generate the first instructions.
4. (Original) The method of claim 3, wherein obtaining the first instructions further comprises receiving the first instructions from the server.
5. (Original) The method of claim 3, wherein obtaining the first instructions further comprises receiving a reference to the first instructions from the server.
6. (Original) The method of claim 1, wherein the first instructions are formatted according to the Synchronized Multimedia Integration Language.
7. (Canceled)
8. (Currently Amended) The method of claim ~~[[7]]~~ 1, wherein the first plurality of video frames are retrieved from the server in accordance with the Real Time Streaming Protocol (RTSP), and wherein requesting the specific video frames from the server comprises sending a separate RTSP PLAY request for each of the video frames.
9. (Original) The method of claim 1, further comprising supporting user interaction with the first navigation video strip.
10. (Original) The method of claim 9, wherein supporting the user interaction comprises:
receiving a user selection of one of the first plurality of video frames; and
in response to the user selection, playing the video on the display device beginning at the selected video frame.

11. (Original) The method of claim 9, wherein the amount of time separating adjacent video frames in the first navigation video strip is substantially equal to a first time interval, and wherein supporting the user interaction comprises:

receiving a second user request to modify the first time interval to a second time interval;
in response to the second user request, obtaining second instructions for displaying a
second navigation video strip, wherein the amount of time separating adjacent
video frames in the second navigation video strip is substantially equal to the
second time interval; and
displaying the second navigation video strip in accordance with the second instructions.

12. (Original) The method of claim 1, wherein the method further comprises receiving user input about the number of video frames that are included in the first navigation video strip.

13. (Original) The method of claim 1, wherein the method further comprises receiving user input about the number of video frames in the first navigation video strip that are displayed on the display device.

14. (Original) The method of claim 1, wherein the method further comprises receiving user input about a location where the first navigation video strip is displayed.

15. (Canceled)

16. (Canceled)

17. (Currently Amended) The method of claim ~~15~~ 1, wherein the option is selected from the group consisting of playing the video, pausing the video, and stopping the video.

18. (Currently Amended) In a server system, a method for enhancing navigation of a video, comprising:

streaming the video to a client over a computer network;

receiving a first client request to generate first instructions for displaying a first

navigation video strip on a display device, wherein the first navigation video strip

comprises a first plurality of video frames from the video for displaying

corresponding thumbnail images;

generating the first instructions; ~~and~~

providing the first plurality of video frames to the client by receiving and responding to

requests for the specific video frames from the client, wherein receiving the

requests for the specific video frames comprises receiving separate play requests

for the video frames in accordance with a video streaming protocol, wherein a

normal play time of each play request begins at T_i and ends at $T_i + d$, wherein T_i is

a timestamp of an i^{th} video frame, and wherein d does not exceed one frame

duration; and

receiving a user selection of an option concerning how the video is managed while the

first navigation video strip is displayed, wherein the option is selected from the

group consisting of cropping the video and alpha-blending the video with the first

navigation video strip.

19. (Original) The method of claim 18, further comprising transmitting the first instructions to the client.

20. (Original) The method of claim 18, further comprising transmitting a reference to the first instructions to the client.

21. (Currently Amended) A client system configured to facilitate enhanced navigation of a video, comprising:

a processor;

memory in electronic communication with the processor;

a video player configured to:

receive the video as it is streamed from a server over a computer network;

receive a first user request to display a first navigation video strip on a display device, wherein the first navigation video strip comprises a first plurality of video frames from the video;

obtain first instructions for displaying the first navigation video strip;

obtain the first plurality of video frames by requesting the specific video frames from the server by sending separate play requests for the video frames in accordance with a video streaming protocol, wherein a normal play time of each play request begins at T_i and ends at $T_i + d$, wherein T_i is a timestamp of an i^{th} video frame, and wherein d does not exceed one frame duration;
~~and~~

display the first navigation video strip on the display device in accordance with the first instructions, wherein displaying the first navigation video strip comprises retrieving the first plurality of video frames from the server and displaying corresponding thumbnail images; and

receive a user selection of an option concerning how the video is managed while the first navigation video strip is displayed, wherein the option is selected from the group consisting of cropping the video and alpha-blending the video with the first navigation video strip.

22. (Original) The client system of claim 21, further comprising a video strip generator that generates the first instructions in response to the first user request, and wherein obtaining the first instructions comprises receiving the first instructions from the video strip generator.

23. (Original) The client system of claim 21, wherein obtaining the first instructions comprises transmitting a first client request to the server to generate the first instructions.

24. (Original) The client system of claim 23, wherein obtaining the first instructions further comprises receiving the first instructions from the server.

25. (Original) The client system of claim 23, wherein obtaining the first instructions further comprises receiving a reference to the first instructions from the server.

26. (Original) The client system of claim 21, wherein the first instructions are formatted according to the Synchronized Multimedia Integration Language.

27. (Canceled)

28. (Currently Amended) The client system of claim ~~[[27]]~~ 21, wherein the first plurality of video frames are retrieved from the server in accordance with the Real Time Streaming Protocol (RTSP), and wherein requesting the specific video frames from the server comprises sending a separate RTSP PLAY request for each of the video frames.

29. (Previously Presented) The client system of claim 21, wherein the video player is further configured to support user interaction with the first navigation video strip.

30. (Original) The client system of claim 29, wherein supporting the user interaction comprises:

receiving a user selection of one of the first plurality of video frames; and
in response to the user selection, playing the video on the display device beginning at the
selected video frame.

31. (Original) The client system of claim 29, wherein the amount of time separating adjacent video frames in the first navigation video strip is substantially equal to a first time interval, and wherein supporting the user interaction comprises:

receiving a second user request to modify the first time interval to a second time interval;
in response to the second user request, obtaining second instructions for displaying a
second navigation video strip, wherein the amount of time separating adjacent
video frames in the second navigation video strip is substantially equal to the
second time interval; and

displaying the second navigation video strip on the display device in accordance with the
second instructions.

32. (Previously Presented) The client system of claim 21, wherein the video player is further configured to receive user input about the number of video frames that are included in the first navigation video strip.

33. (Previously Presented) The client system of claim 21, wherein the video player is further configured to receive user input about the number of video frames in the first navigation video strip that are displayed on the display device.

34. (Previously Presented) The client system of claim 21, wherein the video player is further configured to receive user input about a location where the first navigation video strip is displayed.

35. (Canceled)

36. (Canceled)

37. (Currently Amended) The client system of claim ~~35~~ 21, wherein the option is selected from the group consisting of playing the video, pausing the video, and stopping the video.

38. (Currently Amended) A server system configured to facilitate enhanced navigation of a video, comprising:

a processor;

memory in electronic communication with the processor;

a video stream server configured to stream a video to a client over a computer network;

and

a video strip generator configured to:

receive a first client request to generate first instructions for displaying a first

navigation video strip that comprises a plurality of video frames from the
video for displaying corresponding thumbnail images;

generate the first instructions; ~~and~~

provide the first plurality of video frames to the client by receiving and

responding to requests for the specific video frames from the client,

wherein receiving the requests for the specific video frames comprises

receiving separate play requests for the video frames in accordance with a

video streaming protocol, wherein a normal play time of each play request

begins at T_i and ends at $T_i + d$, wherein T_i is a timestamp of an i^{th} video

frame, and wherein d does not exceed one frame duration; and

receive a user selection of an option concerning how the video is managed while

the first navigation video strip is displayed, wherein the option is selected

from the group consisting of cropping the video and alpha-blending the

video with the first navigation video strip.

39. (Previously Presented) The server system of claim 38, wherein video strip generator is further configured to transmit the first instructions to the client.

40. (Previously Presented) The server system of claim 38, wherein the video strip generator is further configured to transmit a reference to the first instructions to the client.

41. (Currently Amended) A computer-readable medium comprising executable instructions for:

receiving a request to generate video strip instructions for displaying a navigation video strip that comprises a plurality of video frames from a video that is being streamed from a server to a client over a computer network, wherein the video frames that are included in the navigation video strip are independent of a current playback position of the video, and wherein the plurality of video frames from the server correspond to thumbnail images; and

in response to the request, generating the video strip instructions while the video is being streamed from the server to the client, wherein the video strip instructions comprise instructions for making separate play requests for the plurality of video frames in the navigation video strip in accordance with a video streaming protocol, wherein a normal play time of each play request begins at T_i and ends at $T_i + d$, wherein T_i is a timestamp of an i^{th} video frame, and wherein d does not exceed one frame duration; and

receiving a user selection of an option concerning how the video is managed while the first navigation video strip is displayed, wherein the option is selected from the group consisting of cropping the video and alpha-blending the video with the first navigation video strip.

42. (Original) The set of executable instructions of claim 41, wherein the method further comprises providing the video strip instructions to a video player.

43. (Original) The set of executable instructions of claim 41, wherein the method further comprises providing a reference to the video strip instructions to a video player.

44. (Original) The set of executable instructions of claim 41, wherein the method further comprises receiving user input about the number of video frames that are included in the navigation video strip.

45. (Original) The set of executable instructions of claim 41, wherein the method further comprises receiving user input about the number of video frames in the navigation video strip that are displayed on the display device.

46. (Original) The set of executable instructions of claim 41, wherein the method further comprises receiving user input about a location where the navigation video strip is displayed.

47. (Canceled)

48. (Canceled)

49. (Currently Amended) The set of executable instructions of claim ~~47~~ 41, wherein the option is selected from the group consisting of playing the video, pausing the video, and stopping the video.

50. (New) The method of claim 7, wherein the first plurality of video frames are retrieved from the server in accordance with the Real Time Streaming Protocol (RTSP), and wherein

requesting the specific video frames from the server comprises sending an RTSP PAUSE request following by an RTSP PLAY request.

51. (New) The method of claim 1, wherein the first instructions comprise a Synchronized Multimedia Integration Language (SMIL) document.